SPS TECHNOLOGIES
A PCC Company

SPS Technologies Ltd. T. J. Brooks

Registered Office :
191 BARKBY ROAD,
TROON IND . AREA,
LEICESTER LE4 9HX
ENGLAND
Telephone: (0116) 2768261
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RELEASE NOTE

DESPATCH COPY

PLEASE QUOTE THIS NUMBER ON ALL CORRESPONDENCE CONCERNING THIS ORDER.

RELEASE NOTE NUMBER: **D000093991**

ORDER NUMBER	LOAD NUMBER	CUSTOMER ACCOUNT NUMBER
S000025158	Z000025463	2306-001
CUSTOMER PURCHASE ORDER NUMBER	**TERMS CODE /DESCRIPTION**	**ORDER DATE**
PO# 0MFX54	T30 NET 30 DAYS	14/1/2013

DELIVERY ADDRESS	INVOICE ADDRESS	LOCATION	C.REP	CARRIER TYPE/CODE/DESCRIPTION	CARRIER NUMBER	ADD ON CHARGE
B/E Aerospace Consumables Management 9835 NW 14 St Miami FL 33172 United States	B/E Aerospace Consumables Management 10000 NW 15th Terrace Miami FL 33172 United States	041-01		FEDEX	Ground	£

FREIGHT/CODE/DESCRIPTION	CODE/AMOUNT	REGION	TERR.	SCHEDULE DATE	REQUEST DATE
Prepaid		USA		2/12/2013	14/1/2013

LINE	CO LINE	CATALOGUE NUMBER	PART NUMBER	ALTERNATE PART NUMBER	DRAWING ISSUE NUMBER	U.M	Order Quantity	BATCH/LOT NUMBER	QUANTITY
1	4	6102214	DAN6-6-9		14	EA	25,000	A000035802-0000	18,120
									18,120

GOODS OF UK ORIGIN
CHEMICAL AND PHYSICAL CERTS REQUIRED
RAW MATERIAL CERT REQUIRED
PROCESS CERT
BARCODE TO HONEYWELL REQUIREMENTS
INDIVIDUAL BOXES/ CARTONS MUST NOT EXCEED 40 LBS IN WEIGHT
FEDEX INTL ECON, AC #0331-0149-0
SHIPPING TOLERANCE +5%/ -10%
DFARS 252.225-7009 compliant
SPOC 164 Compliant Product

AIRBUS SAS
APPROVAL No. 30183
Certified to
AUK/SA/001-3

ANODISE TO
HS 306
CUTTING ACC
HS 305
4 BOXES

TJBL 3

REMARKS:	PACKER I.D.	EXPORT LIC. I.D.	WEIGHT	TOTAL QTY. DELIVERED
	CF 8	SPIRE license ref: N.L.R	30.00 KGS	18,120

CERTIFICATE OF CONFORMITY

BSI ISO 9001/AS9100 CERTIFICATE No. FM 268

Certified that the supplies detailed hereon have been manufactured, tested and inspected in accordance with the conditions and requirements of the contract or purchase order and unless otherwise noted conform in all respects to the specification(s), drawing(s) relevant thereto.

SIGNED : R Malt

DATE : 10/11/13

INSPECTORS STAMP: TJBL 3

These parts are shipped from TJ Brooks in compliance with all applicable U.K. export regulations. Diversion contrary to U.K. law is prohibited.

Documents Enclosed	
Test Certificate	Y
Raw Material Certificate	Y
Manufacturer's C of C (factored only)	N

SPS TECHNOLOGIES
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Leicester · LE4 9HX · England.
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E-Mail: jfowler@spstech.com
www.spstech.com

1138

Accredited Nadcap
Nondestructive Testing
Chemical Processing
Heat Treating

TBJ Registered Logo

B.S.I Registered to ISO 9001 : 2008 / AS9100 Cert No. FM 266

TEST CERTIFICATE

BOLT CERTIFICATE

PART NUMBER: DAN6-6-9 (ISS 14)		BATCH NUMBER:	A000035802-0000
FORGING NUMBER: X159830	QUANTITY: 22820	DATE:	08/11/2013
DOCKET NO: LM218025	PROC SPEC: HS342 + 387	CAST/MILL HEAT NO:	8-41-05573
MATERIAL SPEC: AMS 4967 (6AL 4V,TA28)	MATERIAL SUPPLIER: PERRYMAN	RELEASE NO:	068764

MICRO EXAMINATION as per LI20 and *Procurement Specification:* HS342 + 387

SPS SAMPLE PACKET NUMBER: 101071113 NUMBER OF SAMPLES: 10

Metallographic examination conforms to procurement specification requirements in all respects.

CHEMICAL ANALYSIS (%)

The chemical analysis results have been taken from the original mill certificate and are not UKAS accredited

Al:	6.36	C:	0.017	Fe:	0.14	H_2:	.0036	N_2:	0.006
O_2:	0.15	Ti:	BAL	V:	4.03	Y:	<0.001		

HEAT TREATMENT RESULTS: 1. Test Bar tested per BS EN ISO 6892-1:2009 B20

U.T.S. (MPA)	.2% P.S. (MPA)	(* L of P)	ELONGATION %	R.A.%
-	-		-	-

ULTIMATE TENSILE *per NASM1312 Test No. 8/108*

1	9624 H	11	
2	9340 H	12	
3	9624 H	13	
4	9476 H	14	
5	9254 H	15	
6	9388 H		
7	9390 H	Min:	8896
8	9644 H	Max:	
9	8940 H	Unit:	N
10	9690 H		

DOUBLE SHEAR *per NASM1312 Test No. 13/113*

1	25959	11	
2	25316	12	
3	24673	13	
4	24989	14	
5	23727	15	
6	25263		
7	25276	Min:	23931
8	24853	Max:	
9	24877	Unit:	N
10	24896		

H = Head Failure T = Thread Failure D = Test Discontinued

TENSION-TENSION FATIGUE per *NASM1312 Test No 11/111*

Machine Test No: 39220D Samples tested: 10 All tests disc. @ Avg: 545200 cycles

HYDROGEN ANALYSIS OF FINISHED PART per LI16

Specification Requirements: 125ppm max. Test Result: 44 ppm

OTHER TEST DATA OR COMMENTS

N/A = Test not applicable as per procurement specification.

Threads per HS387 requirements ANODISE TO HS306 CETYL ALC HS305

Certified that this is a true and accurate record of the tests carried out on this batch

END OF TEXT

S. SIDAT
LAB TEAM LEADER

Signed _____ Date 10/11/13

For and on authority of SPS Technologies Ltd.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to recognised national standards and to units of measurement realised of the National Physical Laboratory or other recognised national standard laboratories. This certificate may not be reproduced other than in full except with the prior written approval of SPS Technologies Ltd. Original copies will be identified by the presence of a watermark depicting the registered logo.

LAB 3

"VSMPO-AVISMA Corporation"

1, Parkovaya St., Verkhnaya Salda, Sverdlovsk reg., 624 760, RUSSIA
Phone (34345) 2-38-32, 2-17-66
Fax (34345) 2-47-36, 2-05-00

INSPECTION CERTIFICATE

EN 10204-3.1. AS 9100/EN ISO 9001 CERT. № 01 137.046312

CERTIFICATE № 04668Y09A date 17.03.2009

Contract: 8404717ING annex 1

Purchaser order: 24377-RM

Purchaser: Tirus International SA, Switzerland

Terms of delivery: P-107 Rev. 3

Quality/alloy 6AL4V Condition of delivery Hot Rolled, Machined & Pickled

Bars №	Units	Weight, (kg)	Object	Dimensions (mm) or Drawing №	Heat №	Lot №
1-22	22	3564	BAR	dia 101,6 x 4200-5300	8-41-05573	992

Chemical Composition, % Ti-remainder

Requirement	Al	V	Cu	Fe	H	N	O	C	Y	Si	B	Ru	Pd			Residuals max,% each	Residuals max,% total	In part, % Sample	In part, % H
AMS 4928R																		as-pickled	
P 107 Rev.3	5,75-6,75	3,5-4,5	max 0,10	0,10-0,25	max 0,0055	max 0,02	0,14-0,17	max 0,03	max 0,005	max 0,10	max 0,003	max 0,005	max 0,005			max 0,10	max 0,30	1	0,0042
MIL-T-9047G																		22	0,0042
TOP	6,36	4,03	0,010	0,14	0,0010	0,006	0,15	0,017	<0,001	0,017	<0,001	<0,005	<0,005			<0,10	0,095		
BOTTOM	6,38	4,26	0,018	0,18	0,0012	0,003	0,16	0,016	<0,001	0,023	<0,001	<0,005	<0,005			<0,10	0,121		

Requirement	0,20% proof stress MPa	Tensile strength MPa	Elongation %	Reduction %	Sample #	Beta-transus T°,C	Heat treatment T°, C	Heat treatment time
TOP	-	-	-	-	-	988	-	-
BOTTOM						988		

Macrostructure testing As per (P-107) par. 3.2.2

Microstructure testing As per (P-107) par. 3.2.4

Ultrasonic Inspection As per AMS 2631B Cl.A1. Longitudinal wave. Immersion method. Focused transducer.

We certify that, subject to exceptions or concessions listed hereafter, the supplies detailed here were manufactured in accordance with the technical specifications of the contract, order or sub-order, and that, all inspections operations and tests, having been completed, the supplies comply in every respect with the relevant particular specifications, drawings, and relevant standards and regulations in force.

Information particular to the supplies delivered,

specify the reference of concessions granted: Mercury-free. Free from radioactive contaminated.

Prepared by Korchagina N.N.

Name Mitrokhina O.K.

signature

stamp

MAY 15 2009 QV5

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.KLXaerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

FIRM: AJ WALTER AVIATION LTD

PURCHASE ORDER#: CP16370

QUANTITY U/M PART-NUMBER	CUST REF#	LOT-NUMBER	MFR DTE	EXP DATE
300 EA DAN6-6-9		A000035802-0000		

08/11/16

Jason Lewis
Senior Director, Global Quality

Inv # 08/11/16